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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/527,693	03/11/2005	Robert Hammond-Smith	MERCK-2986	7305
23599 7590 06/15/2007 MILLEN, WHITE, ZELANO & BRANIGAN, P.C. 2200 CLARENDON BLVD.			EXAMINER	
			DUDEK, JAMES A	
SUITE 1400 ARLINGTON	I. VA 22201	, .	ART UNIT	PAPER NUMBER
		•	2871	
	,			
		•	MAIL DATE	DELIVERY MODE
	•		06/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/527,693	HAMMOND-SMITH ET AL.				
		Examiner	Art Unit				
	•	James A. Dudek	2871				
To Period for R	he MAILING DATE of this communication app eply	ears on the cover sheet with the c	orrespondence address				
WHICHE - Extension after SIX (- If NO peri - Failure to Any reply	TENED STATUTORY PERIOD FOR REPLY VER IS LONGER, FROM THE MAILING DAS of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. But the provision of for reply is specified above, the maximum statutory period wreply within the set or extended period for reply will, by statute, received by the Office later than three months after the mailing tent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	I. sely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status	•						
1) <u></u> Re	sponsive to communication(s) filed on						
	-	action is non-final.					
3)☐ Sin	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition	of Claims						
4)⊠ Cla	4)⊠ Claim(s) <u>1-36</u> is/are pending in the application.						
4a)	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) ☐ Cla	5) Claim(s) is/are allowed.						
6)⊠ Cla	6)⊠ Claim(s) <u>1-36</u> is/are rejected.						
7) Cla	Claim(s) is/are objected to.						
8) Cla	im(s) are subject to restriction and/or	election requirement.					
Application	Papers						
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on 11 March 2005 is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority unde	er 35 U.S.C. § 119						
a)⊠ A	 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ∑ All b) ☐ Some * c) ☐ None of: 1. ∑ Certified copies of the priority documents have been received. 2 ☐ Certified copies of the priority documents have been received in Application No 						
-							
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Notice of Information Patent Application							
Paper No(s)/Mail Date <u>11/05</u> . 6) Other:							

Application/Control Number: 10/527,693

Art Unit: 2871

DETAILED ACTION

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-36 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by GB 2357061 A [061].

Per claim 1, 061 teaches method of preparing a birefringent marking comprising polymerised liquid crystal material [see page 8, first full paragraph], by printing a polymerisable liquid crystal material onto at least one surface of a reflective substrate [the term printing is broad and the fact that 061 is for identification the end result is a print, and thus, printing take place in the form of coating and patterning] and polymerising the liquid crystal material [see page 17, line 11].

Per claim 2, 061 teaches method according to claim 1, wherein the liquid crystal material is a nematic or smectic liquid crystal material [see page nine, third full paragraph].

Per claims 3-4, 061 teaches method according to claim 1, wherein the substrate comprises at least one metallic or metallised layer [see page 19, first full paragraph, aluminum oxide is used].

Per claim 5-6, 061 teaches a method according to claim 1, wherein the substrate comprises at least one layer of reflective pigments [see page 11, fifth full paragraph].

Per claims 7-8, 061 teaches a method according to claim 1, wherein the liquid crystal material comprises at least one compound which induces and/or enhances planar alignment [see paragraph bridging pages 18-19].

Per claims 9-10, 061 teaches a method according to claim 1, wherein the polymerised liquid crystal layer has a splayed structure [see pages 10, fifth paragraph].

Per claims 11-15, 061 teaches the birefringent marking obtainable by a method according to claim 1 [see the figures].

Per claim 17, the liquid crystal is flat or planar.

Per claim 18, the LC is a marking. Per claim 19-36, see page 8-13.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Response to Arguments

Applicant's arguments filed 2/20/07 have been fully considered but they are not persuasive. Applicant is arguing the term "printing" and that the 061 lacks this feature. Applicant argues a narrow definition of printing. Examiner still contends that when the liquid crystal is patterned a printing process takes place. Accordingly, the Examiner is not persuaded.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Dudek whose telephone number is 571-272-2290. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/527,693

Art Unit: 2871

Page 4

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

James A. Dudek Primary Examiner Art Unit 2871